The content of this SDS is also valid in Spanish Mexican language to cover all Central, South America (except Brazil) and the Caribbean countries.

# SAFETY DATA SHEET

### Tungsten 2 % Lanthana welding electrode

### **Section 1. Identification**

**GHS** product identifier

: Tungsten 2 % Lanthana welding electrode

Other means of identification

Not available.

**Product code** 

Not available.

**Product type** 

: Solid.

#### **Identified uses**

Welding and cutting of metals.

Supplier/Manufacturer

: ABICOR BINZEL

650 Medimmune Court, Suite 110

Frederick, MD 21703 Tel: (800) 542-8467 Fax: (301) 846-4497

Supplier's details

Astaras Welding Accessories

6901 Bryan Dairy Rd. Unit #160

Largo, FL 33777 Tel: (727) 546-9600 Fax: (727) 546-9699

**Emergency telephone** number (with hours of

operation)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

(24/7)

### Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

### **GHS label elements**

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. : Not applicable. **Disposal** 

Hazards not otherwise classified (HNOC)



### Section 2. Hazards identification

Physical hazards not otherwise classified

(PHNOC)

Health hazards not otherwise classified (HHNOC)

None known.

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture Other means of

identification

: Not available.

#### **CAS** number/other identifiers

**CAS** number : Not applicable. Product code : Not available.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** 

: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion

#### Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

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### Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: metal oxide/oxides

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

**United States** 

**Occupational exposure limits** 

None.

#### **Canada**

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)			Ceiling				
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
3 ,	US ACGIH 3/2012 AB 4/2009	-	5 5	-	-	10 10	-	-	-	-	[a] [3]
	BC 4/2012	-	5	-	-	10	-	-	•		[-1

[3]Skin sensitization **Form:** [a]Insoluble

#### **Mexico**

Ingredient name	Exposure limits
Tungsten	NOM-010-STPS (Mexico, 9/2000).  LMPE-CT: 10 mg/m³, (as W) 15 minute(s).  LMPE-PPT: 5 mg/m³, (as W) 8 hour(s).
Welding fume	ACGIH TLV (United States). TWA: 5 mg/m³ 8 hour(s). Form: Particulate.

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Section 8. Exposure controls/personal protection

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid.

Color : Gray.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : <3400°C (<6152°F)

Boiling point : Not available.
Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 19 to 19.1

**Solubility** : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.Volatility: Not available.



### Section 9. Physical and chemical properties

VOC (w/w) : Not available.

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: Incompatible with some strong acids.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

There is no data available.

#### Irritation/Corrosion

There is no data available.

### **Sensitization**

There is no data available.

#### Carcinogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.



### **Section 11. Toxicological information**

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects

: No known significant effects or critical hazards.

Long term exposure

**Potential immediate** 

: No known significant effects or critical hazards.

effects

**Potential delayed effects**: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

There is no data available.

# Section 12. Ecological information

### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

There is no data available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT	TDG / NOM-003-SCT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

**AERG**: Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available.

to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: Tungsten

United States inventory (TSCA 8b): All components are listed or exempted.

**Clean Air Act Section 112** (b) Hazardous Air **Pollutants (HAPs)** 

: Not listed

Clean Air Act Section 602 **Class I Substances** 

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances



### **Section 15. Regulatory information**

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Not applicable.

**SARA 313** 

No products were found.

State regulations

**Massachusetts** : The following components are listed: Tungsten

**New York** None of the components are listed.

**New Jersey** The following components are listed: Tungsten **Pennsylvania** : The following components are listed: Tungsten

California Prop. 65

No products were found.

**Canada** 

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

**International lists National inventory** 

**Australia** : All components are listed or exempted. China : All components are listed or exempted. **Europe** : All components are listed or exempted.

Not determined. **Japan** : Not determined. Malaysia

**New Zealand** : All components are listed or exempted. All components are listed or exempted. **Philippines** Republic of Korea : All components are listed or exempted.

**Taiwan** : Not determined.

### Section 16. Other information

**History** 

Date of issue mm/dd/yyyy : 05/15/2015 : 09/15/2014 **Date of previous issue** 

Version

Prepared by : KMK Regulatory Services Inc.



### Tungsten 2 % Lanthana welding electrode

### **Section 16. Other information**

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should

be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

